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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830,043	04/23/2004	Ji-hun Koo	Q81048	7509
23373 7590 11/21/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER LESPERANCE, JEAN E	
			ART UNIT 2629	PAPER NUMBER
			MAIL DATE 11/21/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Advisory Action
Before the Filing of an Appeal Brief**

Application No.

10/830,043

Applicant(s)

KOO ET AL.

Examiner

Jean E. Lesperance

Art Unit

2629

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 13 November 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

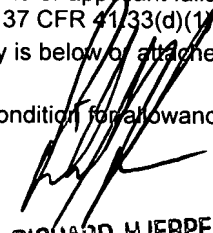
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: 1-27.
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____.
13. ☐ Other: _____.


RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
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Continuation of 11. does NOT place the application in condition for allowance because: The applicant's representative argued that the prior art does not teach "a key information storage unit that stores key values respectively mapped to both a predefined button of the plurality of buttons of the virtual keyboard and a predefined order of the user's fingers used to select the predefined button". Examiner disagrees with the applicant because the prior art clearly teaches a ROM (280) of Fig.3 being a key information storage unit wherein storing exemplary templates of finger shapes and finger and hand heuristics in memory 280 expedites finger recognition by reducing CPU time needed to recognize and track finger positions (column 18, lines 6-9) and the user can command the companion device to position the virtual keyboard or other input device in the proper starting position. For instance, if the user typically begins to key by placing the right hand fingers on home row J, K, L, and "." keys, and the left fingers on F, D, S and A keys, the software will move the keys of the virtual keyboard to such a position (column 18, lines 51-56) and wherein the left fingers on F, D, S and A keys are predefined buttons in a predefined order. The applicant's representative argued that the prior art does not teach "a key determination unit that finds a selected key value by matching the selected button and order of the user's fingers with the predefined button and predefined order of the user's fingers mapped in the key information storage unit". Examiner disagrees with the applicant because the prior art teaches (software routine Fig.3 (285) in essence moves or relocates the virtual keyboard to under the user's fingers. Such procedure may be carried out by mapping the image obtained from sensor 20 to the fingers of the template, and then mapping the touched keys to the natural position for the user, which natural position was determined during the template construction phase (column 21, lines 35-41)) wherein the software 285 is a code or routine which works with the memory 280 to store different finger positions of the user's hand and wherein the left fingers on F, D, S and A keys are selected key value by matching the selected button and order of the user's fingers with the predefined button and predefined order of the user's fingers mapped in the key information storage unit. The applicant's representative argued that the prior art does not teach "identifying a selected key value corresponding to the sensed positions of the fingers and the order of the user's fingers that are used to select the virtual button, amongst a plurality of stored key values". Examiner disagrees with the applicant because the prior art teaches templates preferably are used in the present invention to help identify user finger positions from data obtained from sensor 20. Templates can assist classification algorithm (or classifier) 285 in distinguishing boundaries between fingers when discontinuities are not necessarily apparent. For example, in FIG. 7A, the third and fourth user's fingers (fingers 3 and 4) are relatively close together (column 21, lines 15-22) wherein the sensor (20) helps to identify in the storage unit (280) the different keys like the right hand fingers on home row J, K, L, and keys, and the left fingers on F, D, S and A keys. The applicant has to amend the claims to overcome the pertinent used prior art. Therefore, the rejection is maintained.